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<input type="checkbox"/>	L70	(l64 or l65 or l66 or l67 or l68 or l69) and (server near archiv\$)	47
<i>DB=USPT; PLUR=NO; OP=OR</i>			
<input type="checkbox"/>	L69	709/203.ccls.	2532
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<input type="checkbox"/>	L65	707/103r-103z.ccls.	1025
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<input type="checkbox"/>	L63	L55 and 118	1
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<input type="checkbox"/>	L60	L55 and (graphical near (record or records))	0
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10 | 014, 695

<input type="checkbox"/> L57	L56 and 426	1
<input type="checkbox"/> L56	L55 and (record or records)	1
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<input type="checkbox"/> L54	L53 and (display\$ near (record or records))	5
<input type="checkbox"/> L53	L52 and (record or records).ti.	29
<input type="checkbox"/> L52	(quer\$ or search\$).ti.	3410
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<input type="checkbox"/> L50	(distribut\$ near (record or records))	504
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<input type="checkbox"/> L48	(migrat\$ near (record or records))	60
<input type="checkbox"/> L47	L2 and (record or records).ab.	21
<input type="checkbox"/> L46	L2 and (record or records).ti.	3
	L30 and ((window or windows) near (file or filename or (file adj1 name) or (file adj1 names) or (file adj1 type) or (file adj1 types) or file-name or file-names or file-type or file-types or record or records or (record adj1 name) or (record adj1 names) or record-name or record-names or record-type or record-types or (record adj1 type) or (record adj1 types or journal or date or time or length or lengths)))	
<input type="checkbox"/> L45	file-type or file-types or record or records or (record adj1 name) or (record adj1 names) or record-name or record-names or record-type or record-types or (record adj1 type) or (record adj1 types or journal or date or time or length or lengths))	60
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<input type="checkbox"/> L42	((record or records) near (window or windows))	216
<input type="checkbox"/> L41	L40 and (window or windows or browser or browsers or gui or (graphical adj1 user adj1 interface) or icons or icon or menu or menus)	6
<input type="checkbox"/> L40	L39 and (file or files)	27
<input type="checkbox"/> L39	L38 and (record or records).ti.	48
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<input type="checkbox"/> L33	migrat\$.ti.	752
	L30 and ((window or windows or (graphical adj1 user adj1 interface) or gui or menu or menus or icon or icons or button or buttons) near (file or filename or (file adj1 name) or (file adj1 names) or (file adj1 type) or (file adj1 types) or file-name or file-names or file-type or file-types or record or records or (record adj1 name) or (record adj1 names) or record-name or record-names or record-type or record-types or (record adj1 type) or (record adj1 types or journal or date or time or length or lengths)))	
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<input type="checkbox"/> L31	L30 and ((window or windows or (graphical adj1 user adj1 interface) or gui or menu or menus or icon or icons or button or buttons) same (file or filename or (file adj1 name) or (file adj1 names) or (file adj1 type) or (file adj1 types) or file-name or file-names or file-type or file-types or record or records or (record adj1 name) or (record adj1 names) or record-name or record-names or record-type or	563

record-types or (record adj1 type) or (record adj1 types or journal or date or time or length or lengths)))		
<input type="checkbox"/> L30	(record or records).ti.	8009
<input type="checkbox"/> L29	L28 and ((record or records) near (event or events))	41
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<input type="checkbox"/> L25	L24 and archiv\$.ab.	13
<input type="checkbox"/> L24	(record or records).ti.	8009
<input type="checkbox"/> L23	L22 and (record or records).ab.	93
<input type="checkbox"/> L22	archiv\$.ab.	743
<input type="checkbox"/> L21	L20 and (record or records).ti.	4
<input type="checkbox"/> L20	archiv\$.ti.	217
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R

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Computer Research**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on procedures are often used to obtain a better understanding of the execution of the application. The visualization Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often too complex and do not provide the user with the desired overview of the application. In our experience, such repeated occurrences of non-trivial communication patterns are often the cause of performance problems. In this paper, we propose a new visualization technique that allows the user to quickly identify and analyze these patterns. The technique is based on a hierarchical clustering of the communication patterns. The resulting tree structure provides a clear overview of the application's behavior. We have applied this technique to a number of distributed applications and found it to be very effective in identifying performance bottlenecks.

2 [Office documents on a database kernel—filing, retrieval, and archiving](#)

P. Zabback, H. B. Paul, U. Deppisch

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**
Issue 2-3Full text available: [pdf\(1.24 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the main components of integrated office systems is the large central filing system. It efficiently retrieves and searches office documents containing text, images, graphics, data and voice. We propose to implement a filing system on top of the Darmstadt database system (DASDBS), which is designed as a management kernel for both standard and non-standard applications. This paper investigates the appropriate storage structures for the filing system objects and the resulting performance.

3 [Designing and mining multi-terabyte astronomy archives: the Sloan Digital Sky Survey](#)

Alexander S. Szalay, Peter Z. Kunszt, Ani Thakar, Jim Gray, Don Slutz, Robert J. Brunner

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2Full text available: [pdf\(429.09 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The next-generation astronomy digital archives will cover most of the sky at fine resolution in many wavelengths, from X-rays, through ultraviolet, optical, and infrared. The archives will be stored at diverse geographic locations. One of the first of these projects, the Sloan Digital Sky Survey (SDSS) is creating a 5-wavelength survey of 10,000 square degrees of the sky (see <http://www.sdss.org/>). The 200 million objects in the multi-wavelength database will have mostly numerical attributes. This paper describes the design of the SDSS archive and the mining of the data.

Keywords: Internet, archive, astronomy, data analysis, data mining, database, scalable

14/014, 1695

4 A survey of current object-oriented databases

Mansour Zand, Val Collins, Dale Caviness

February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Object-oriented concepts form a good basis for the data models required for next-generation data such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object-oriented databases are available commercially or are being developed by industry or academic research facilities. This paper attempts to compare some of these products using fourteen criteria. The selected criteria are major factors in the successful design of an object-oriented database ...

Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

5 Garbage collecting the Internet: a survey of distributed garbage collection

Saleh E. Abdullahi, Graem A. Ringwood

September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3

Full text available:  [pdf\(337.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Internet programming languages such as Java present new challenges to garbage-collection design. The various garbage-collection schema for linked structures distributed over a network are reviewed here. The different types of garbage collectors are classified first because they evolved from single-address-space collectors. The paper then uses Java as a framework to explore distribution issues: locality of action, communication overhead and communication latency.

Keywords: automatic storage reclamation, distributed, distributed file systems, distributed memory management, object-oriented management, memory management, network communication, object-oriented data structures, reference counting

6 An object-oriented data model for distributed office applications

E. Bertino, M. Negri, G. Pelagatti, L. Sbattella

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Issue 2-3

Full text available:  [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The object-oriented paradigm is becoming very popular for database applications and several object-oriented DBMSs have been developed. A basic notion in this paradigm is the inheritance hierarchy that allows users to define objects and the associated operations starting from already defined objects. However, in distributed applications the inheritance hierarchy must provide a conceptual modeling function, in addition to a function. Another important requirement is to provide ...

7 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ |

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(165.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the new technologies has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based systems to new enterprise Java™ environments.

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, microservices, view-controller (MVC), transformation

8 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian E Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available:  pdf(1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power is available everywhere. Mobile and stationary devices will dynamically connect and coordinate to support people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, a system architecture for pervasive computing, called *π* ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, on-line, pervasive computing, structured I/O, tuples, ubiquitous computing

9 Comparison of access methods for time-evolving data

Betty Salzberg, Vassilis J. Tsotras

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  pdf(529.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumption, the processing time, and query time for representative queries. The comparison is based on worst-case analysis. Assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods that ...

Keywords: I/O performance, access methods, structures, temporal databases

10 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available:  pdf(448.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, methods for an adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desired. Essentially, MPEG-7 media descriptions are XML documents following media description schemes, a variant of XML Schema. Thus, it is reasonable to investigate current ...

Keywords: MPEG-7, XML database systems, multimedia databases

11 Query processing in a multimedia document system

Elisa Bertino, Fausto Rabitti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Full text available:  pdf(2.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a common document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

12 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Vol

Full text available:  pdf(351.86 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. General-purpose integration of data across the wide area is also now ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

13 Managing persistent objects in a multi-level store

Michael Stonebraker

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available:  pdf(1.10 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Recovery management in QuickSilver

Rober Haskin, Yoni Malachi, Gregory Chan

February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Full text available:  pdf(2.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes QuickSilver, developed at the IBM Almaden Research Center, which uses atomic commit as a unified failure recovery mechanism for a client-server structured distributed system. Transactions are atomic for related activities at a single server or at a number of independent servers. Rather than using a standard transaction management into a dedicated language or recoverable object manager, Quicksilver embeds the commit protocol and log record ...

15 StorHouse metanoia - new applications for database, storage & data warehousing

Felipe Cariño, Pekka Kostamaa, Art Kaufmann, John Burgess

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available:  pdf(597.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the StorHouse/Relational Manager (RM) database system that uses and explores the storage hierarchy. By active storage hierarchy, we mean that StorHouse/RM executes SQL queries on data stored on all hierarchical storage (i.e. disk, optical, and tape) without post processing a file to manage a data set. We describe and analyze StorHouse/RM features and internals. We also describe how StorHouse/RM differs from traditional HSM ...

16 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

Full text available:  pdf(2.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this working group was to collect, evaluate, and foster the development of resources for components of both new and revised traditional courses that emphasize object-oriented software using Java. These courses could, for example, integrate Internet-based distributed programming, database programming, graphics and visualization, human interface design and object-oriented design. They could therefore also be suitable as capstone courses in computer ...

17 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference technology into computer science education**

Full text available: [!\[\]\(5ebcf382a6ee952d6c5b8b948415801e_img.jpg\) pdf\(107.98 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Trustworthy 100-year digital objects: Evidence after every witness is dead

Henry M. Gladney

July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Full text available: [!\[\]\(fc3a57079704ef1b99671c8cafae23be_img.jpg\) pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of authenticity. A digital counterpart is a message authentication code fixed firmly to each important digital object is sealed together with its own audit trail, each user can examine this evidence to determine the trustworthiness of the object. We propose an architecture and design that a ...

19 The intrinsic problems of structural heterogeneity and an approach to their solution

Theo Härdter, Günter Sauter, Joachim Thomas

April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Full text available: [!\[\]\(3b2dcacf48e43c80086616b9c3042b47_img.jpg\) pdf\(132.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper focuses on the problems that arise when integrating data from heterogeneous sources to create a unified database view. At first, we give a detailed analysis of the kinds of structural heterogeneity that arise when unified views are derived from different database systems. We present the results in a multiple tier architecture which distinguishes different levels of heterogeneity and relates them to their underlying causes and to the mapping conflicts resulting from the view definition ...

Keywords: Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema mapping, Views

20 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta December 1998 **ACM SIGCSE Bulletin**, Volume 30 Issue 4

Full text available: [!\[\]\(64aa49a093b417cefcbea2338d3c32ec_img.jpg\) pdf\(2.29 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The goal of this working group was to collect, evaluate, and foster the development of resources to support the teaching of Java. The group identified the components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, database programming, graphics and visualization, human interface design and object-oriented design. They could therefore also be suitable as capstone courses in computer ...

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